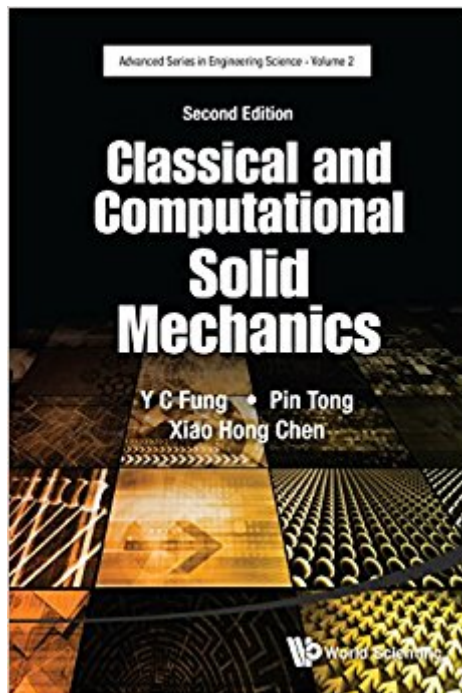




**Ebook Directory**  
the best source of ebook

The book was found

# Classical And Computational Solid Mechanics (Advanced Series In Engineering Science)



## Synopsis

The second edition provides an update of the recent developments in classical and computational solid mechanics. The structure of the book is also updated to include five new areas: Fundamental Principles of Thermodynamics and Coupled Thermoelastic Constitutive Equations at Large Deformations, Functional Thermodynamics and Thermoviscoelasticity, Thermodynamics with Internal State Variables and Thermo-Elasto-Viscoplasticity, Electro-Thermo-Viscoelasticity/Viscoplasticity, and Meshless Method. These new topics are added as self-contained sections or chapters. Many books in the market do not cover these topics. This invaluable book has been written for engineers and engineering scientists in a style that is readable, precise, concise, and practical. It gives the first priority to the formulation of problems, presenting the classical results as the gold standard, and the numerical approach as a tool for obtaining solutions. Readership: Researchers, academics, graduate and senior undergraduates in biomedical engineering, mechanical engineering, aeronautical and aerospace engineering, civil engineering and applied mechanics.

## Book Information

Series: Advanced Series in Engineering Science (Book 2)

Paperback: 860 pages

Publisher: World Scientific Publishing Co; 2nd Edition edition (July 17, 2017)

Language: English

ISBN-10: 9814713651

ISBN-13: 978-9814713658

Product Dimensions: 5.8 x 1.7 x 9 inches

Shipping Weight: 2.7 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #610,727 in Books (See Top 100 in Books) #211 in [Books > Engineering & Transportation > Engineering > Bioengineering > Biomedical Engineering](#) #335 in [Books > Textbooks > Engineering > Aeronautical Engineering](#) #419 in [Books > Science & Math > Physics > Mechanics](#)

## Customer Reviews

Review of the First Edition: "... this is a good, comprehensive, unified presentation of much of the field of solid mechanics, written by two well-regarded researchers in that field." -- Applied Mechanics Reviews

The second edition provides an update of the recent developments in classical and computational solid mechanics. The structure of the book is also updated to include five new areas: Fundamental Principles of Thermodynamics and Coupled Thermoelastic Constitutive Equations at Large Deformations, Functional Thermodynamics and Thermoviscoelasticity, Thermodynamics with Internal State Variables and Thermo-Elasto-Viscoplasticity, Electro-Thermo-Viscoelasticity/Viscoplasticity, and Meshless Method. These new topics are added as self-contained sections or chapters. Many books in the market do not cover these topics. This invaluable book has been written for engineers and engineering scientists in a style that is readable, precise, concise, and practical. It gives the first priority to the formulation of problems, presenting the classical results as the gold standard, and the numerical approach as a tool for obtaining solutions.

[Download to continue reading...](#)

Classical and Computational Solid Mechanics (Advanced Series in Engineering Science)  
Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Introduction to Practical Peridynamics: Computational Solid Mechanics Without Stress and Strain (Frontier Research in Computation and Mechanics of Materials) Introduction to Coastal Engineering and Management (Advanced Series on Ocean Engineering) (Advanced Series on Ocean Engineering (Paperback)) The Finite Element Analysis of Shells - Fundamentals (Computational Fluid and Solid Mechanics) Computational Fluid Mechanics and Heat Transfer, Second Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Engineering Mechanics: Statics Plus MasteringEngineering with Pearson eText -- Access Card Package (14th Edition) (Hibbeler, The Engineering Mechanics: Statics & Dynamics Series, 14th Edition) Computational Materials Science: From Ab Initio to Monte Carlo Methods (Springer Series in Solid-State Sciences) Mechanics of Materials (Computational Mechanics and Applied Analysis) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) Dynamics in Engineering Practice, Eleventh Edition (Crc Series in Applied and Computational Mechanics) Theoretical Neuroscience: Computational and Mathematical Modeling of Neural Systems (Computational Neuroscience Series) Simulating Enzyme Reactivity: Computational Methods in Enzyme Catalysis (Theoretical and Computational Chemistry Series) Dynamics in Engineering Practice, Tenth Edition (Crc: Computational Mechanics and Applied

Analysis) Computational Approaches to Protein Dynamics: From Quantum to Coarse-Grained Methods (Series in Computational Biophysics) Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) Advanced Fracture Mechanics (Oxford Engineering Science Series) The Power of Computational Thinking: Games, Magic and Puzzles to Help You Become a Computational Thinker Current Topics in Computational Molecular Biology (Computational Molecular Biology)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)